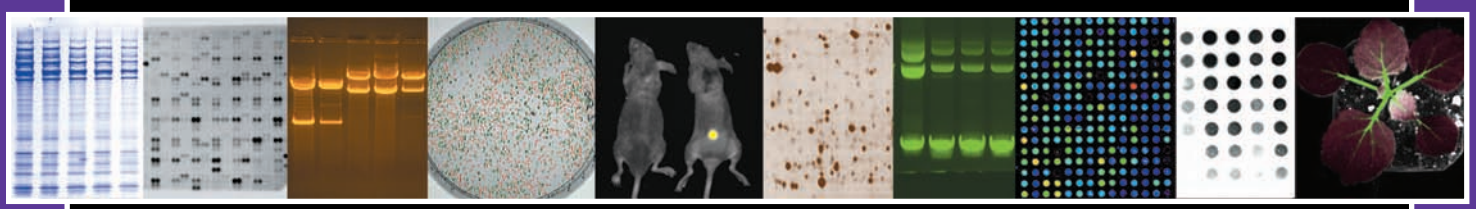
BioImaging Systems

Multispectral and Modular Systems for Image Capture and Analysis of Chemiluminescent, Fluorescent, Colorimetric and In Vivo/In Vitro Images

UVP



Anything you can imagine, UVP can image!SM

BioImaging Systems Overview

UVP offers the most comprehensive selection of BioImaging Systems to meet your imaging requirements and budgets. The systems are separated into two categories Advanced Imaging Systems and Basic Imaging Systems.

Advanced Imaging Systems

BioSpectrum® Imaging Systems

Fully-featured, multifunctional systems with automated software controls for a full spectrum of applications including in vivo/in vitro imaging plus chemiluminescent, fluorescent and colorimetric imaging.

EC3 Imaging Systems

Multifunctional with manual controls and light tight darkroom for a full spectrum of applications including chemiluminescent, fluorescent and colorimetric imaging plus in vivo/in vitro imaging.

ChemiDoc-It™ Imaging Systems

Super-dark, light-tight darkroom for dedicated chemiluminescent imaging.

GelDoc-It™ Imaging Systems

Modular design for dedicated fluorescent and colorimetric imaging.

GelDoc-It™ TS Imaging Systems

Touch screen technology for dedicated fluorescent and colorimetric imaging.

System Configurations: Systems can be configured to fit your budget and applications with a choice of specially designed CCD cameras, with or without a computer or a transilluminator. Some of systems may incorporate VisionWorks®LS Image Acquisition and Analysis Software for advanced analysis functionality.

Additional accessories for use with the systems include Gel Tools, thermal printer, custom filters and UV converter plates. The BioLite MultiSpectral Light Source is designed for use with the BioSpectrum and EC3 systems for fluorescent in vivo and in vitro imaging.

Basic Imaging Systems

BioDoc-It™ Imaging Systems

All-in-one workstation for image capture of fluorescent and colorimetric samples; no computer required. The VisiDoc-It™ provides an economical alternative.

DigiDoc-It™ Imaging Systems

Megapixel digital color camera and exclusive capture software for fluorescent and colorimetric samples. The MultiDoc-It™ is used for TLC, fluorescent and colorimetric imaging and the ChromaDoc-It™ is designed for TLC color samples.

PhotoDoc-It™ Imaging Systems

Megapixel digital color camera with an economical mini hood and mini color printer for basic gel documentation.

Doc-It®LS Analysis Software is recommended for use with these Basic Imaging Systems.

Available through a world-wide dealer network. Call for a demonstration, quote or needs analysis (909) 946-3197 or +44(0)1223-420022.

System and Camera Selection

UVP's BioImaging Systems are designed to be used with specific cameras for specific applications. Each system is shown with available cameras:

	Model Name	Camera
Basic Imaging Systems	PhotoDoc-It 50	Digi Camera
	DigiDoc-It 100 MultiDoc-It 100 ChromaDoc-It 100	Digi Plus Camera
	BioDoc-It 200 VisiDoc-It 200	Fluor Camera
Advanced Imaging Systems	BioSpectrum 300	Gel HR Camera
	BioSpectrum 400	Chemi HR Camera
	BioSpectrum 500	BioChemi HR Camera
	BioSpectrum 600	OptiChemi HR Camera
	ChemiDoc-It 400	Chemi HR Camera
	ChemiDoc-It 500	BioChemi HR Camera
	ChemiDoc-It 600	OptiChemi HR Camera
	EC3 300	Gel HR Camera
	EC3 400	Chemi HR Camera
	EC3 500	BioChemi HR Camera
	EC3 600	OptiChemi HR Camera
	GelDoc-It TS 300	Gel HR Camera
	GelDoc-It 300	Gel HR Camera

Camera Descriptions

OptiChemi HR Camera: The camera is an advanced, monochrome CCD camera for extra long exposure times. Intense cooling and low noise give a wide dynamic range for applications with longer integration for bioluminescent applications. Superior quantum efficiency for chemiluminescence.

BioChemi HR Camera: Chosen for sensitivity, this monochrome CCD camera is designed to capture blots, plates, microarrays and other samples requiring longer term integration. The camera is cooled to subzero temperatures, produces low background noise and a wide dynamic range for high quality images in a short exposure time, excellent for chemiluminescence.

Chemi HR Camera: Suitable for high resolution imaging, this cooled CCD camera can be used for general chemiluminescent, fluorescent or white light imaging.

Gel HR Camera: Monochrome high resolution megapixel, non-cooled CCD camera for laboratories performing routine DNA and protein gel electrophoresis.

Fluor Camera: Basic monochrome non-cooled CCD camera for fluorescent and colorimetric gel documentation imaging applications.

Digi Cameras: Megapixel digital color camera recommended for TLC and other fluorescent and colorimetric imaging applications. The Digi Plus Camera provides a higher megapixel resolution.

Cameras and Applications

Select from CCD cameras designed for specific imaging applications.

	Fluorescent Gels	Colorimetric Gels	Colony Plaques	Microtiter Plates	Autoradiograph Film	Dot Blots	1D Gels	Colony Counting	Densitometry	Membrane Arrays	TLC	Western Blots	Chemiluminescence	Northern/Southern Blots	2D Gels	In Vivo/ In Vitro
OptiChemi HR	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
BioChemi HR	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
Chemi HR	X	X	X	X	X	X	X	X	X	X		X	X			
Gel HR	X	X	X	X	X	X	X	X	X	X						
Fluor	X	X	X	X	X	X	X	X	X	X						
Digi	X	X	X	X	X	X	X	X	X	X	X					

BioSpectrum Imaging System

The Power of One! One Multispectral System with Automated Controls for Chemiluminescent, Fluorescent, In Vivo, In Vitro and Colorimetric Imaging

The BioSpectrum Imaging System offers many features to automate image acquisition and analysis

Power indicator lights are conveniently located at the top of the darkroom

Light tight darkroom creates optimum imaging conditions

Unique UV blocking sample viewing window

Camera mounts on top of the darkroom

Motorized zoom lens is controlled by the software interface

Built-in, bright overhead white light and choice of UV, easily selected from the software interface

Automated control of the five-position emission filter array

Easy access fold-down white light plate

Chemi platform fits over the plate for placement of blots

Roll-out tray provides easy access to the UV transilluminator; select from several benchtop, patented and awarding winning transilluminator models (configured with system or optional)

Computer and monitor ordered separately (see page 16 for details)

VisionWorksLS Software (configured with system or optional)

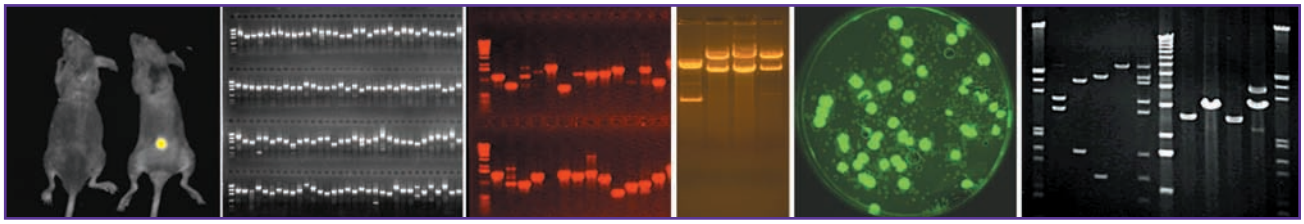
BioSpectrum System shown with 3UV Transilluminator. White light plate flips up for access to the transilluminator surface. Optional BioLite Kit can be placed inside the darkroom for imaging in vivo and in vitro samples.

System Selection

The BioSpectrum can be configured with the following cameras:

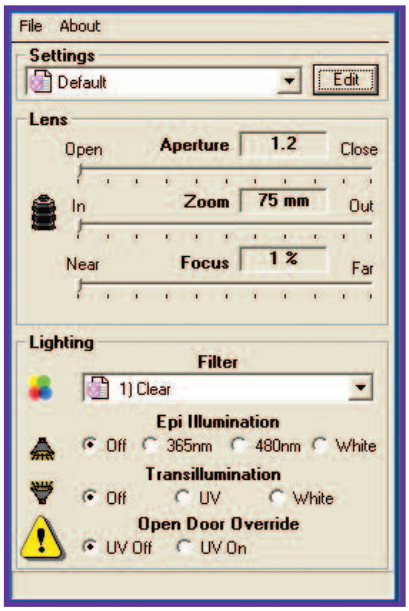
Model Name	Camera
BioSpectrum 300	Gel HR Camera
BioSpectrum 400	Chemi HR Camera
BioSpectrum 500	BioChemi HR Camera
BioSpectrum 600	OptiChemi HR Camera

For current camera specifications, contact UVP



Software Interface for Automated Control

The user-friendly software interface controls the motorized zoom lens, epi and transillumination UV and white light, emission filter selection and system power.



Default or user-defined settings

Control of the motorized lens settings: aperture, zoom and focus

Select or identify new filters

Click on epi and transillumination light sources

The Settings section of the software interface box shows the default and user settings for the Lens and Lighting functions. The motorized lens is controlled by software interface for adjusting aperture, zoom and focus. The Lighting section allows selection of a filter and epi illumination or transillumination. The filter wheel is designed with five-positions for viewing samples with emission filters. Use the interface center to select from:

- SYBR Green (515-570nm)
- SYBR Gold (485-655nm)
- Ethidium Bromide Red (570-640nm)
- Clear (empty)
- Optional (empty)

The epi illumination control has four positions: off, UV, Visi-Blue™ 480nm and fluorescent white light.

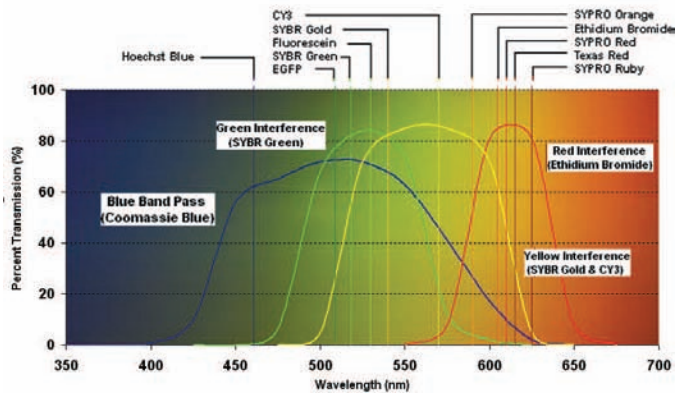
Additional software features of the easy to use, intuitive VisionWorksLS image capture and analysis software are shown on page 10.

System Components

- Darkroom, light-tight with wide access door, UV blocking sample viewer window, fold-down white light plate and sample platform
- Automated software control of lighting, motorized zoom lens, filters and image capture
- Emission filters: SYBR Green, SYBR Gold, EtBr as well as clear and open slots
- Overhead light: white light, 365nm UV, 480nm blue light
- CCD Camera (see cameras left page)
- VisionWorksLS software (configured with system or optional)

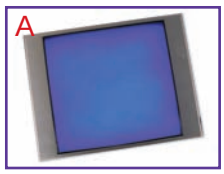
BioLite MultiSpectral Epi-Illumination Source

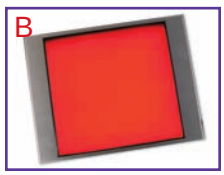
The chart below displays the fluorophor absorption and emission spectra for typical filters used for imaging applications. The chart also shows stains recommended for use with each filter.



The BioSpectrum System is a multifunctional configuration for fluorescent in vivo imaging when using the BioLite™ MultiSpectral Source. The optional BioLite supplies a directed source for illumination of plants, live animals and colony samples. The 150-watt quartz halogen visible light source uses fiber optic bundles and a closed optical path to tightly control the output spectrum for consistent, repeatable measurements with superior signal to noise ratio. A six-position dimmer permits variable intensity. The kit includes:

- Excitation/emission filter set
- Sample tray
- Visible light source via fiber optic bundles



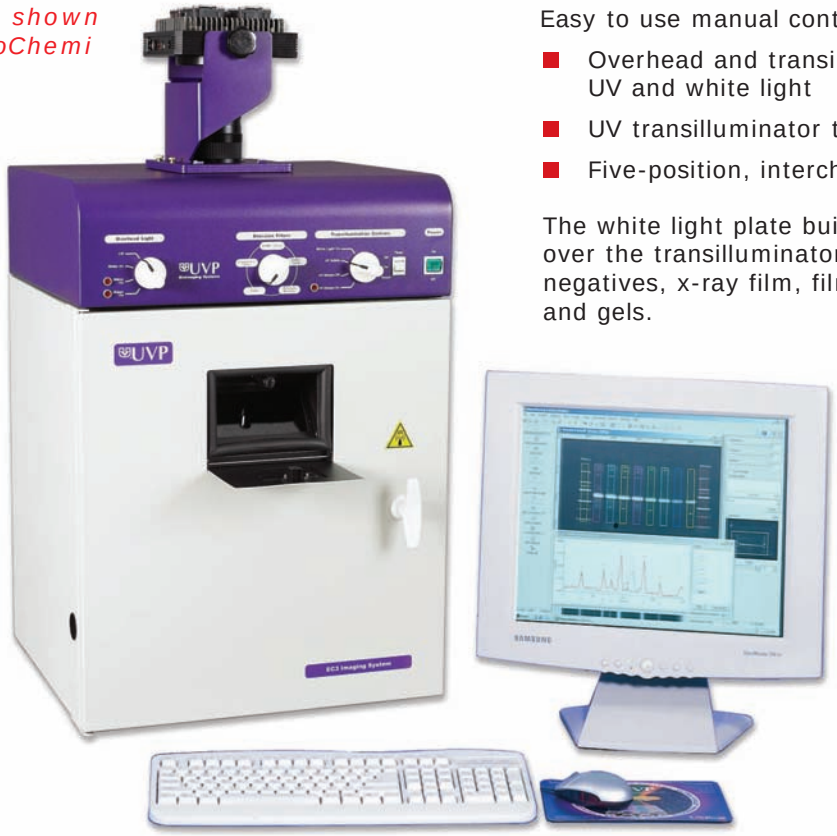


BioLite Transilluminators (optional), shown to the right, connect to the BioLite power source for 25x26cm backlit sample excitation (A: Using GFP 360-430nm filter; B: Using CY 630-650nm filter)

EC3 Imaging System

Manually Controlled System for Chemiluminescent, Fluorescence, Colorimetric and In Vivo/In Vitro Imaging

EC3 System shown with the BioChemi HR camera



Unique UV blocking viewer

Open the wide access door to place gels on the UV Transilluminator which fits on the roll-out tray

Easy to use manual controls of:

- Overhead and transillumination UV and white light
- UV transilluminator timer
- Five-position, interchangeable emission filters

The white light plate built into the darkroom flips down over the transilluminator for visualizing autoradiographs, negatives, x-ray film, film positives, microtiter plates and gels.

For chemiluminescent applications, place the chemi platform over the built-in white light plate or transilluminator

Select from several benchtop, patented and awarding winning transilluminator models (configured with system or optional)

Easy to use VisionWorksLS image acquisition and analysis software (configured with the system or optional)

Computer and monitor are ordered separately

System Selection

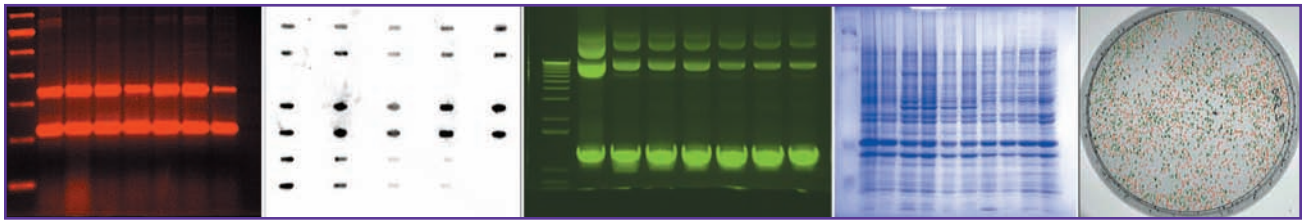
The EC3 systems can be configured with the following cameras:

System Name	Camera
EC3 300	Gel HR Camera
EC3 400	Chemi HR Camera
EC3 500	BioChemi HR Camera
EC3 600	OptiChemi HR Camera

System Components

- Darkroom, light-tight with wide access door, UV blocking sample viewer window, fold-down white light plate and sample platform
- Manual control of lighting, zoom lens, image capture
- Emission filters: SYBR Green, SYBR Gold, EtBr
- Overhead light: white light, 365nm UV, 480nm blue light
- CCD Camera (see cameras to the left)

For current camera specifications, contact UVP.
Transilluminators and VisionWorksLS Software are configured with the systems or optional.



ChemiDoc-It Imaging System

Super Dark, Super Sensitive Dedicated Chemiluminescent Imaging

Light tight darkroom provides optimum conditions for chemiluminescent applications

Overhead white light is highly uniform for image focusing

Wide access door

High resolution cooled CCD camera fits securely in top chamber

Fixed lens supplies optimal signal sensitivity

Sample platform features:

- Height adjustable for reproducible field of view
- For blot sizes up to 21x26cm
- Non-reflective platform minimizes reaction light scattering

System includes the easy to use VisionWorksLS software (configured with the system or optional)

Computer and monitor are ordered separately

System Selection

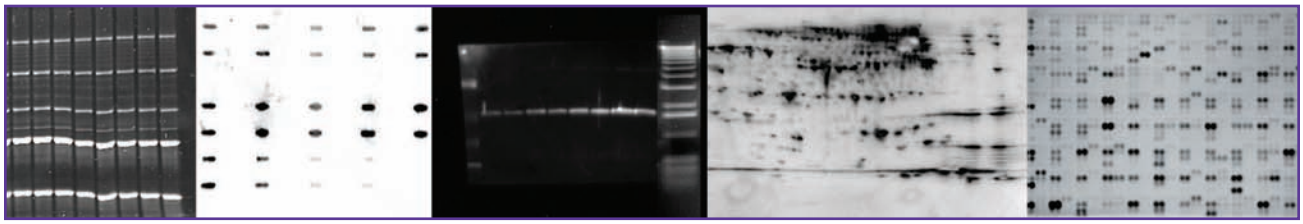
The ChemiDoc-It System can be configured with the following cameras:

System Name	Camera
ChemiDoc-It 400	Chemi HR Camera
ChemiDoc-It 500	BioChemi HR Camera
ChemiDoc-It 600	OptiChemi HR Camera

For current camera specifications, contact UVP

System Components

- Darkroom, compact and light-tight
- Overhead light: white light
- Sample platform, height adjustable
- CCD Camera (refer to cameras)
- Fixed lens



GelDoc-It Imaging System

Modular Design for Fluorescent and Colorimetric Imaging

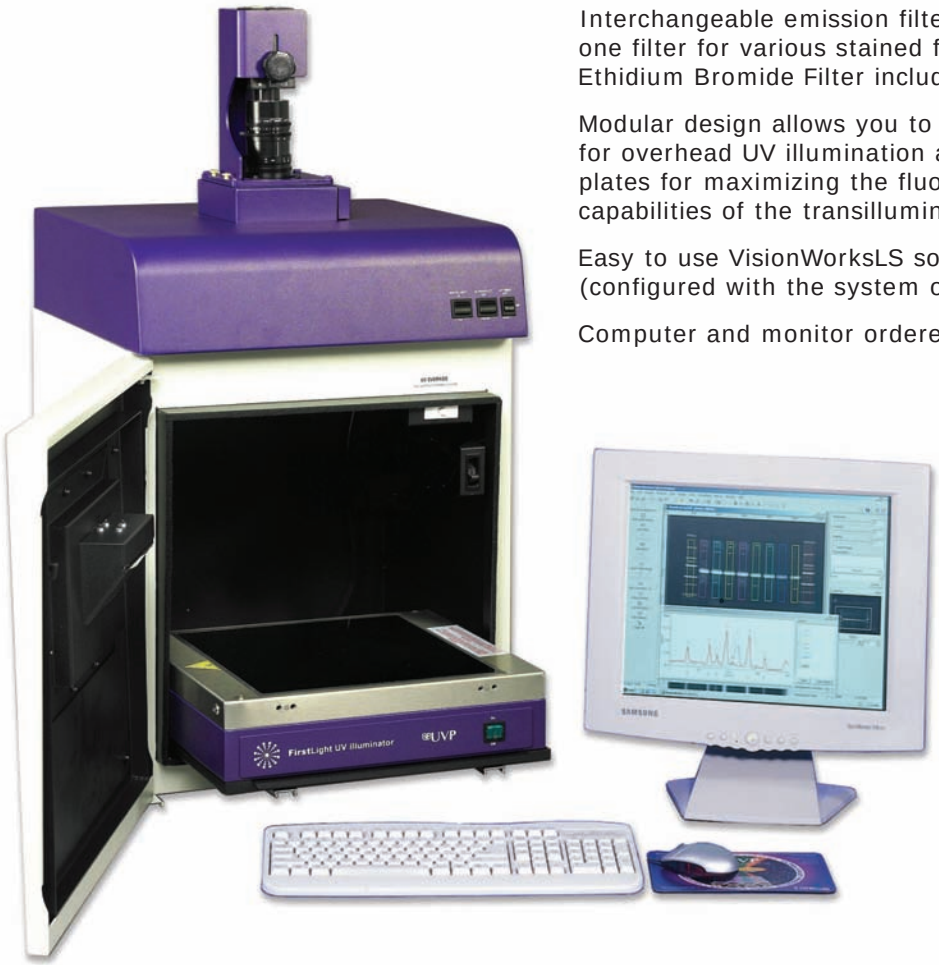
Easy access zoom lens; motorized or manual lens available

Overhead white light

Unique gel viewer window blocks UV while allowing visualization of samples without opening the door

Light-tight darkroom creates optimum imaging conditions

Select from a large variety of patented and awarding winning UV transilluminators



GelDoc-It Imaging System shown with the Gel HR Camera, zoom lens and FirstLight

Interchangeable emission filter tray holds one filter for various stained fluorophors; Ethidium Bromide Filter included

Modular design allows you to add UV lamps for overhead UV illumination and converter plates for maximizing the fluorescence capabilities of the transilluminator

Easy to use VisionWorksLS software (configured with the system or optional)

Computer and monitor ordered separately

System Selection

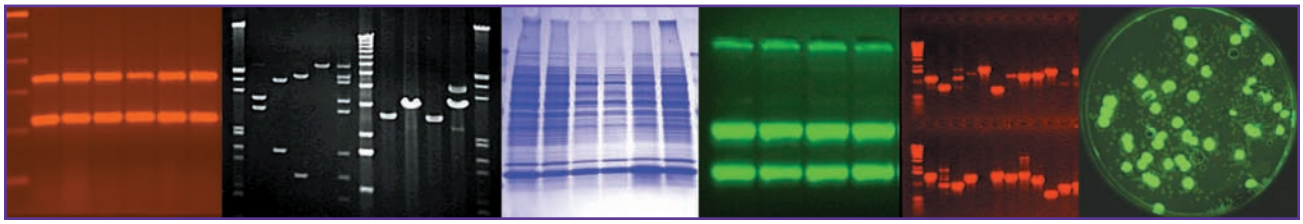
The GelDoc-It is configured with the Gel HR high resolution camera.

System Name	Camera
GelDoc-It 300	Gel HR Camera

For current camera specifications, contact UVP

System Components

- Darkroom with wide access door
- Overhead light: white light
- Gel viewer window, UV blocking
- UV Transilluminator
- Emission filter: EtBr (others available)
- Gel HR CCD Camera
- Zoom lens: manual or motorized



Available through a world-wide dealer network. Call for a demonstration, quote or needs analysis (909) 946-3197 or +44(0)1223-420022.

GelDoc-It TS Imaging System

Touch Screen Technology for Easy Fluorescent and Colorimetric Imaging

Built-in computer plus USB ports for connecting to a mouse or network

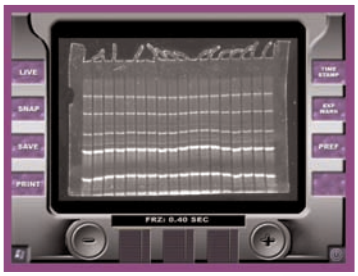
Easy access zoom lens

Overhead white light

Light-tight darkroom

Unique gel viewer window blocks UV while allowing visualization of samples without opening the door

Select from a large variety of benchtop transilluminators (configured with system or optional)



Capture, view and save gels, plates and colony images with the easy to use touch screen panel.

Gel Camera mounts on top of the darkroom

Zoom lens is easily accessible 8" LCD monitor, with touch screen sensitivity, tilts for optimum viewing angle

Interchangeable emission filter tray holds one 50mm filter for various stained fluorophors; Ethidium Bromide Filter included

Modular design allows optional UV lamps to be mounted in the darkroom for epi UV illumination

For white light transillumination, refer to the Accessories for the converter plate to convert UV to white light

The software menu and panel buttons allow users to select from various options:

- See a *live* preview of gels, plates and colonies
- *Snap* (capture) the image
- *Save* the image as TIFF (8, 12 or 16-bit), BMP or JPEG
- *Print* to any digital printer

Additional features include time/date stamp, over saturation warning and adjustment of integration times.

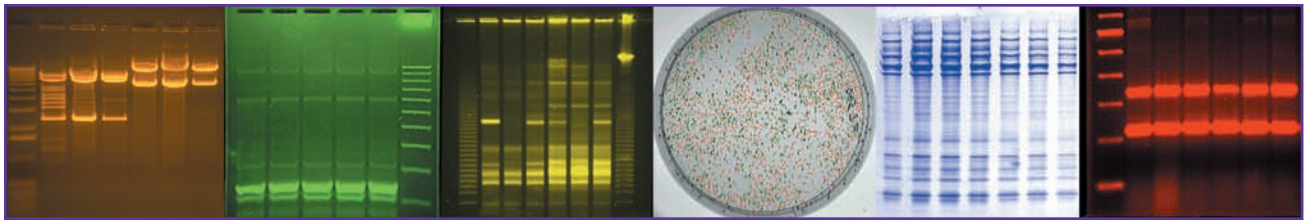
System Selection

The GelDoc-It TS is configured with the Gel HR Camera.

Model Name	Camera
GelDoc-It TS 300	Gel HR Camera

System Components

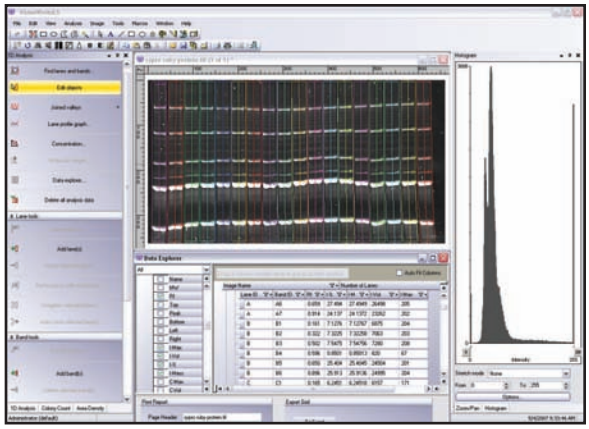
- Darkroom with wide access door, built-in computer and touch screen monitor
- Overhead light: white light
- Gel viewer window, UV blocking
- Emission filter: EtBr (others available)
- Gel HR Camera and zoom lens



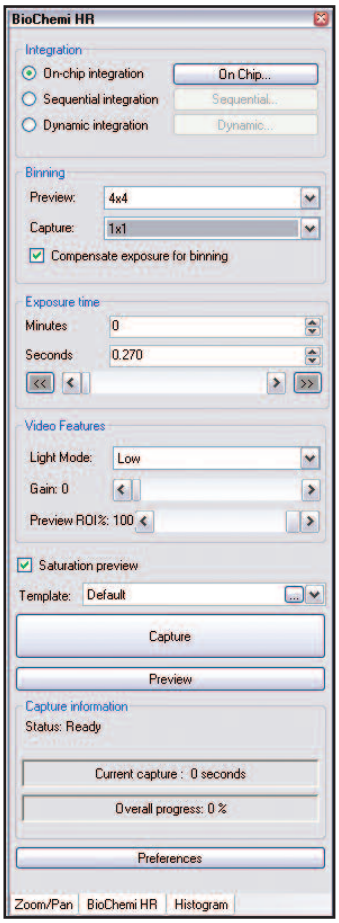
VisionWorksLS Analysis Software

VisionWorksLS Image Acquisition and Analysis Software is required with the Advanced Imaging Systems (BioSpectrum, EC3, ChemiDoc-It, GelDoc-It). Software can be configured with the system or ordered separately. This versatile package provides comprehensive tools for image capture and analysis of gels, plates and membranes as well as colony counting. Capabilities include:

- Support for 21 CFR Part 11 compliance
- Extensive image acquisition functions
- Image enhancement capabilities
- Advanced 1D lane densitometry/analysis
- One-touch automated macros
- User defined profiles and preferences
- Report generation and export data



Plug-in Modules designed for function simplicity and user preferences!



Sample Image Capture Interface Plug-in menu guides the user through the easy to use image acquisition steps. Plug-ins are designed specially for each camera.

Image Acquisition

VisionWorksLS software is configured for 8, 12 or 16 bit images. It can also open images captured with a Twain interface. The software facilitates capture of chemiluminescent, fluorescent or colorimetric stained gels, blots and membranes from UVP's imaging systems. For chemiluminescent imaging, acquire chemiluminescent Western, Northern and Southern blot images without using radioisotope labeled 32P and film. The acquisition capabilities include:

- Integration options with on-chip integration for the simplest image capture. Sequential and dynamic integration allow expanded integration options
- Digital Video Playback (DVP) is a virtual software VCR able to play back acquired sequences; enables users to choose the optimum image for analysis
- Saturation warning assures imaging results are quantifiable by detecting over-exposure of bands in live preview.
- Binning function allows selection of the binning preview and capture modes
- Templates can be defined with image acquisition and camera settings for replicating procedures
- Live preview of samples ensures the image is clear before taking the actual picture

The capture information shows the current camera status and capture progress which is helpful when capturing images with long exposures.

Support for 21 CFR Part 11 Compliance

VisionWorksLS Software supports image and user security and report logs to assist with 21 CFR Part 11 compliance.

Image History records changes made to images. Report shows actions taken along with user information, notes, date and time.

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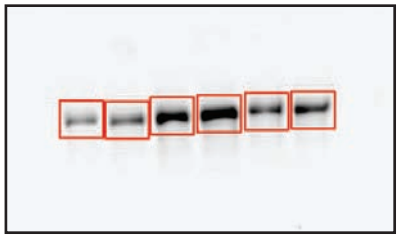
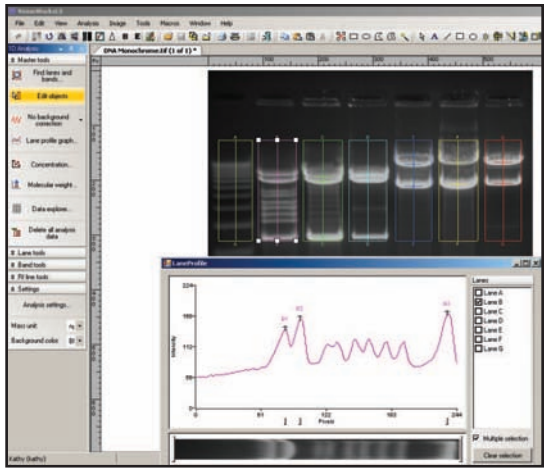
1D Analysis Capabilities/Applications

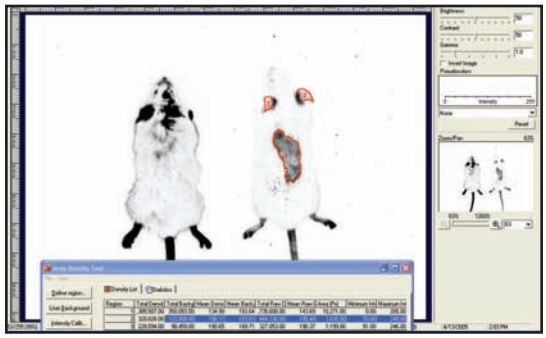
VisionWorksLS analysis includes comprehensive tools to provide a full range of analysis capabilities. The easy to use functions automate your experiment analysis with accurate quantitation, generation of lane profile graphs, plus intensity histograms, concentration curves and much more!

- 1D lane densitometry analysis
- Live animal and plant imaging
- Measure molecular weights
- Protein quantitation
- Quantitative PCR
- Western blot densitometry
- Dot blot analysis
- Colony counting
- GFP expression analysis
- PCR gene expression
- TLC analysis and more!



Area Density Tool for Western Blots. Quickly determine relative intensities of western blots, dot blots or any non-isotopic substrate samples.





Live Animal/Plant Imaging. Quickly determine relative intensities of live animals and plants with the Region of Interest (ROI) tool. Use this tool to determine tumor progression and other in vivo applications.

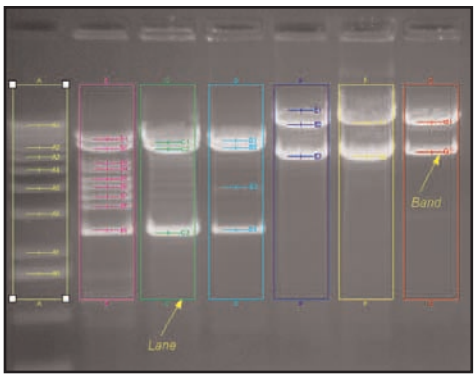
One-Touch Automated Macros

Create your own macros to automate routine, time consuming procedures involving image capture, enhancement, analysis and data archiving. Record keystrokes that perform a series of complex features within the software. Assign a function key to recorded macros for *one-touch automation*.

Image Enhancement Capabilities

VisionWorksLS software offers many enhancement features, process filters and annotation capabilities applied as non-destructive tools for visualization and publication.

After analysis is performed and annotation or other changes are made to the image, a plug-in module allows users to “burn changes” into a new image without damaging the original.



Network version
available for multiple users.

User Profiles, Templates and Preferences

Researchers can personalize their workspace preferences by placing tool bar icons and plug-ins along the sides, bottom or across the top of the screen, then save the profile by user name. Also set up user accounts with passwords to protect user data.

User defined templates are great time savers and allow users to set the darkroom (BioSpectrum) and camera settings to quickly and easily capture a wide range of samples. Also select from several pre-set capture templates which includes a template for acquiring a series of multiple exposures of chemiluminescent western blots.

Report & Export Data

- Save images in various file formats including TIFF, JPEG, BMP, TGA, PNG and GIF for use in presentations or documentation
- Create detailed and user-configured reports showing extensive analysis results on MW, Rf, precise position of bands, band intensities, area density calculations, etc.
- Use the Results plug-in to export data to Excel

BioDoc-It Imaging System

Dedicated Fluorescent and Colorimetric Imaging in a Stand-Alone Gel Documentation System

Live preview of images on LCD screen

Screen tilts for optimum viewing angle

Fluor Camera and zoom lens

CompactFlash memory card and port for network connectivity allows transfer of images to your computer

Touch pad control of:

- 17 integration times
- Save options: JPEG or 8 and 12 bit TIFF
- Over-saturation warning

Darkroom mounts onto the transilluminator

Wide door for access and placement of samples on the transilluminator surface; UV automatically shuts off when the door is opened

Choose from a large selection of unique and patented benchtop transilluminators including single UV, 2UV, 3UV and FirstLight

Darkroom includes overhead LED white light with high and low settings

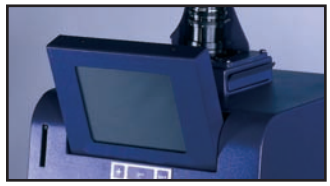
System Selection

System Name	Camera
BioDoc-It 200	Fluor Camera

For current camera specifications, contact UVP

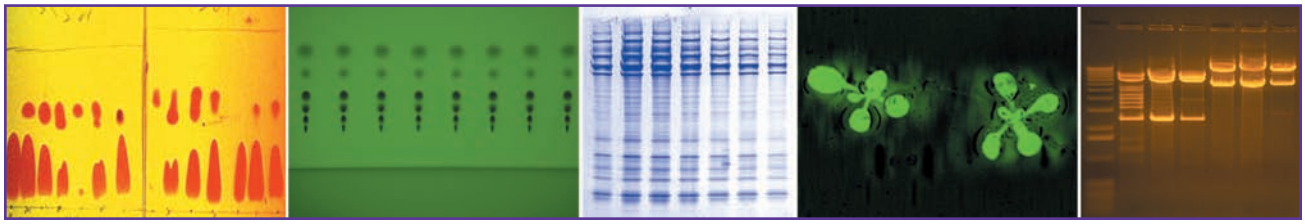
System Components

- Darkroom, compact with wide access door
- Overhead white light
- Gel viewer window, UV blocking
- UV Transilluminator (variety available)
- Emission filter: EtBr (others filters available)
- CCD Camera (Fluor Camera) and zoom lens
- CompactFlash Memory Card and USB connector



EtBr filter fits in the side access tray; other filters are available

"Three door" models include side access ports for positioning gels on the transilluminator without opening the door



 Available through a world-wide dealer network. Call for a demonstration, quote or needs analysis (909) 946-3197 or +44(0)1223-420022.

VisiDoc-It Imaging System

Basic Fluorescent and Colorimetric Imaging

The VisiDoc-It Imaging System is a basic, economical image capture and gel documentation system and allows researchers to use a transilluminator already in their laboratory. Two system configurations are available:

1) with a hood enclosure or
2) with a stand

For a system with the hood, select from compact Benchtop UV or large format High Performance models (order separately)

For the hood configuration, the camera mounts onto the lightweight hood enclosure area; allows images up to 20x20cm

System Selection

System Name	Camera
VisiDoc-It 200	Fluor Camera

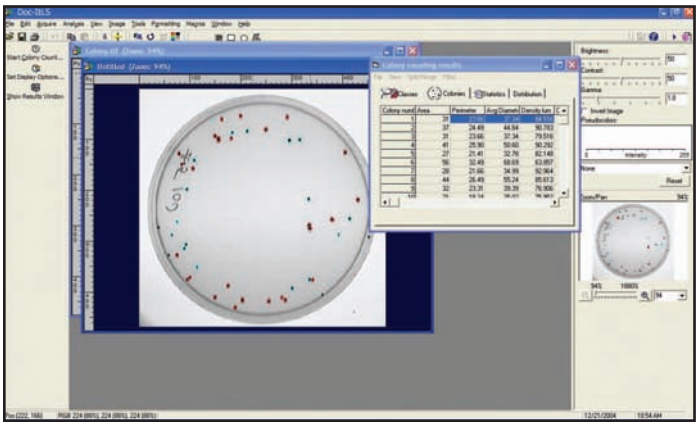
Fluor Camera and lens connect directly to the processor

Camera mounts to the camera stand

Optional transilluminator fits on the base; Choose from a large selection of Benchtop UV transilluminator models

Doc-It LS Analysis Software

Basic Analysis Software for Gels, Plates and Colonies



Users set tool bars for their preferences

Doc-ItLS software is compatible with Windows 2000 or XP Pro

Doc-It®LS Analysis Software is recommended for use with images captured from UVP's Basic Imaging Systems: BioDoc-It, VisiDoc-It, DigiDoc-It, MultiDoc-It, ChromaDoc-It and PhotoDoc-It. Analyze the gels with the easy to use Doc-ItLS software featuring:

- One-touch button click for selecting lanes and bands
- Automate colony counting
- Enhance images with tools including annotation, image noise reduction and pseudo color
- Support 21 CFR Part 11 compliance with image history and user information
- Generate easy to interpret quantitative data of lanes and bands
- Create and personalize reports
- Export data to external software applications

DigiDoc-It Imaging System

Entry-Level Digital Color System for Fluorescent and Colorimetric Imaging

The digital color camera connects directly to your computer loaded with UVP's exclusive image capture/camera control software

Camera mounts to the top of the lightweight hood enclosure under the protective cover

View gels through the UV blocking viewport

Lightweight door opens for access to the transilluminator surface

EtBr filter is located in the darkroom (other filters available)

Large format, 25-watt High Performance UV Transilluminator (order separately); to use a benchtop transilluminator with the DigiDoc-It, order the DigiDoc-It and drawer assembly

System Components

- Hood enclosure, lightweight with access door and UV blocking viewport
- UV Transilluminator (Order separately)
- Emission filter: EtBr (others available)
- Digital color camera (Digi Plus Camera)
- Capture software (Windows 2000, XP Pro)

System Selection

System Name	Camera
DigiDoc-It 100 MultiDoc-It 100 ChromaDoc-It 100	Digi Plus Camera

Exclusive Capture Software

Exclusive capture software, included with DigiDoc-It, MultiDoc-It and ChromaDoc-It, loads onto your computer to control camera functions plus image capture and image enhancement capabilities.

ChromaDoc-It Imaging System

Digital Color System for TLC Samples

The camera connects directly to your computer loaded with UVP's exclusive image capture software.

Camera mounts on the Chromato-Vue® UV cabinet.

TLC filter is included for capturing brilliant color images

Overhead 254nm and 365nm UV tubes are positioned on two sides of the cabinet for uniform UV illumination

Lightweight curtain blocks ambient light and protects the user from UV exposure

System Components

- Cabinet with access curtain and overhead 254/365nm UV and White light
- Emission filter: TLC
- Digi Plus Camera
- Capture software (Windows 2000, XP Pro)

MultiDoc-It Imaging System

Multiple Application Digital Color System for Fluorescent, TLC and Colorimetric Imaging

Digital color camera with Etbr filter mounts inside the darkroom

Darkroom features sturdy metal construction and wide access door; UV shuts off when the door is open

UV Transilluminator included (select from a large variety of benchtop models); for TLC imaging order a MultiDoc-It without a transilluminator

Gel viewer, UV blocking, for viewing samples

For TLC imaging, a system is available without a transilluminator. Mount UV lamps (order separately) for epi UV illumination

MultiDoc-It includes the same camera and software features as the DigiDoc-It

The digital color camera connects directly to your computer loaded with UVP's exclusive image capture and camera control software.

Analyze gels with the basic Doc-ItLS Software

System Components

- Darkroom with wide access door, gel viewer window
- UV Transilluminator
- Emission filter: EtBr (TLC filter and others available)
- Digi Plus Camera
- Capture software (Win 2000, XP Pro)

For current camera specifications, contact UVP

PhotoDoc-It Imaging System

Digital Color System for Economical Gel Documentation

Digi Camera, with built in 2.5" LCD screen, mounts on the lightweight, durable hood

Benchtop UV transilluminator (configured with system or ordered separately)

EtBr filter mounts into the top of the hood

Compact printer links directly to the camera for low cost 4 x 6" prints; 108 sheets of photo paper included

Save images to the memory card for transfer of images to your computer

System Selection

System Name	Camera
PhotoDoc-It 50	Digi Camera

System Components

- Metal hood with handles
- Emission filter: EtBr
- Digi Camera
- Instant photo printer with paper

Imaging System Accessories

UV Transilluminators

A variety of transilluminators are available for fluorescence of gels, plates and other imaging samples. Select from:

- FirstLight UV Illuminator: Unique patented design emits extremely uniform 302nm UV with <5% coefficient of variance over the full imaging area
- Benchtop models: 3UV™ offers three UV wavelengths in one unit: 254/302/ 365nm for samples requiring fluorescence at different wavelengths, 2UV™ model offers 302nm and 365nm UV, single UV models also available
- High Performance UV Transilluminators (for the DigiDoc-It system): 25-watt tubes; available in several filter sizes and UV wavelengths

Computers and Monitors

Computers and monitors are optional and ordered separately. For systems ordered with a computer, UVP supplies current, high specification components. Applicable analysis software and drivers for use with the system are installed at the UVP factory. Systems ordered without a computer will be shipped with a full software/driver CD set for loading onto your own computer.

Other Accessories

Thermal Printer: Document your images with a high quality thermal printer, supplying 256-gray scale archive-quality prints. The printer is compact and easily connects to the BioImaging System. Print low-cost images in seconds.

Converter Plates 21x26cm or 25x26cm filter sizes: ■ Convert UV to white light ■ Convert UV to 480nm blue (Visi-Blue) ■ Convert 302nm to 365nm UV

Emission Filters: A variety of custom emission filters are available to fit each imaging system. Contact UVP for ordering information.

UV Lamps: The UVGL-25 Lamp (254/365nm) is recommended for the GelDoc-It series and MultiDoc-It Systems. UVP manufactures a wide range of UV lamps for many laboratory applications. Go to www.uvp.com for information.

Fluorescent Step Tablet: Maximize fluorescence calibration by using the non-photobleaching Fluorescent Standard Step Tablet (patent pending). Use the tablet with the FirstLight Illuminator to normalize the control of bands and spots against one another for variations in lighting and optical conditions.

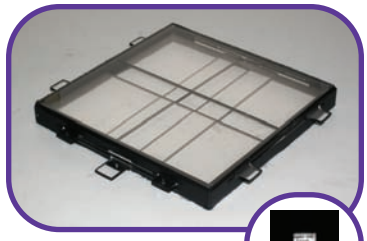
Gel-Sentry DNA Preparation Plate: Unique design features UV blocking panels to protect the gel from damaging UV. The panels can be aligned to isolate specific lanes and bands to minimize UV exposure during cutting.

Glowell Luminescent Standards: GLO-014 self-illuminating standard calibrates low light cameras. Emits stable emission with spectral peak at 525nm.

For more product information, call UVP or go to www.uvp.com

Thermal Printer

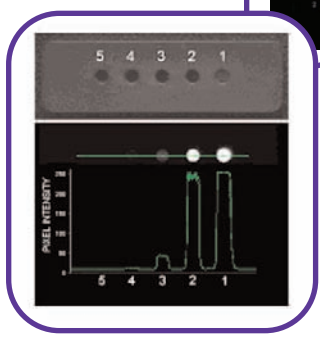
Converter Plate



Gel-Sentry Plate

Step Tablet (right)

Glowell (bottom) demonstrates the sensitivity of the camera



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Go to **www.uvp.com** for additional product information

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To order, contact:

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